



125 REFERENCES

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Sheet 1 of 8

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
XOM-CON1

APPLICATION NO.  
10/666,208

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTS

APPLICANTS  
Hans Thomann, et al.

CONFIRMATION NO.  
8301

FILING DATE  
Sept. 18, 2003

GROUP  
2862

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
W	1	3,812,457	05/21/74	Weller	340	15.5	
W	2	4,003,017	01/11/77	Bailey	340	15.5	
W	3	4,144,949	03/20/79	Silverman	181	106	
W	4	4,207,619	06/10/80	Klaveness	367	36	
W	5	4,460,059	07/17/84	Katz	181	102	
W	6	4,718,048	01/05/88	Staron et al.	367	40	
W	7	4,829,489	05/09/89	Rector	367	82	
W	8	4,849,945	07/18/89	Widrow	367	30	
W	9	4,862,423	08/29/89	Rector	367	25	
W	10	4,873,675	10/10/89	Barr, Jr. et al.	367	57	
W	11	4,954,998	09/04/90	Rector	367	82	
W	12	4,965,774	10/23/90	Ng et al.	367	75	
W	13	5,012,453	04/30/91	Katz	367	57	
W	14	5,081,612	01/14/92	Scott et al.	367	38	
W	15	5,109,946	05/05/92	Sorrells	181	106	
W	16	5,109,947	05/05/92	Rector III	181	106	
W	17	5,128,866	07/07/92	Weakley	364	421	
W	18	5,130,949	07/14/92	Kan et al.	367	27	
W	19	5,144,589	09/01/92	Hardage	367	25	
W	20	5,144,591	09/01/92	Hardage	367	75	
W	21	5,191,557	03/02/93	Rector et al.	367	41	
W	22	5,200,929	04/06/93	Bowers	367	38	
W	23	5,233,567	08/03/93	Calvert	367	27	
W	24	5,233,568	08/03/93	Kan et al.	367	27	
W	25	5,305,285	04/19/94	Naville et al.	367	49	
W	26	5,343,440	08/30/94	Kan et al.	367	27	

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W. J. Miller

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27 September 2004

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	<b>APPLICANTS</b> Hans Thomann, et al.	<b>CONFIRMATION NO.</b> 8301
	<b>FILING DATE</b> Sept. 18, 2003	<b>GROUP</b> 2862

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W	27	5,372,207	12/13/94	Naville et al.	175	1	
W	28	5,438,170	08/01/95	Klaveness	181	106	
W	29	5,511,038	04/23/96	Angeleri et al.	367	40	
W	30	5,583,825	12/10/96	Carrazzone et al.	367	31	
W	31	5,585,556	12/17/96	Petersen et al.	73	152.03	
W	32	5,615,115	05/25/97	Shilling	364	421	
W	33	5,758,539	06/02/98	Naville et al.	73	152.03	
W	34	5,798,488	08/25/98	Beresford et al.	181	102	
W	35	5,844,132	12/01/98	Fabret et al.	73	152.45	
W	36	5,835,883	11/10/98	Neff et al.	702	7	
W	37	5,936,913	08/10/99	Gill et al.	367	25	
W	38	5,937,362	08/10/99	Lindsay et al.	702	9	
W	39	6,176,323	01/23/01	Weirich et al.	175	40	
W	40	6,206,108	03/27/01	MacDonald et al.	175	24	
W	41	6,023,444	02/08/00	Naville	367	82	
W	42	6,262,941	07/17/01	Naville	367	82	

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W	44	Aleotti, L. et al, "SEISBIT-Latest Applications of Seismic While Drilling Technology," 57th EAEG Conference and Technical Exhibition, Glasgow, Scotland. May 29-June 2, 1995.
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EXAMINER INITIAL	REF.	
W	46	Bertelli, L., Savini, L., and Martera, M.D., "While Drilling Methodologies - the Integration Strategy and the Impact of E&P Activities," EAGE 59 <sup>th</sup> Conference and Technical Exhibition, Geneva, Switzerland, May 26-30, 1997.
W	47	Best, A.I., "The Effect of Pressure on Ultrasonic Velocity and Attenuation in Near-Surface Sedimentary Rocks," Geophysical Prospecting, Vol. 45, pp. 345-364, 1997.
W	48	Best, A.I., McCann, C., and Sothcott, J., "The Relationships Between the Velocities, Attenuations and Petrophysical Properties of Reservoir Sedimentary Rocks", Geophysical Prospecting, Vol. 2, pp. 151-178, 1994.
W	49	Borland, W. et al., "Real-Time Answers to Well Drilling and Design Questions," Oilfield Review, Vol. 9, No. 2, pp. 2-15, Summer 1997.
W	50	Borland, W.H. and Drew, J., "Drilling Hazard Risk Reduction in Brunei Using Surface and Drill Bit Seismic Data," IADC Well Control Conference for the Asia Pacific Region, Singapore, December 4-5, 1997.
W	51	Borland, W.H. et al, "Drill Bit Seismic, Vertical Seismic Profiling, and Seismic Depth Imaging to aid Drilling Decisions in the Tho Tinh Structure-Nam Con Son Basin - Vietnam," Society of Exploration Geophysicists of Japan, Tokyo, Vol. 51, No. 1, pp. 27-45, February 1998.
W	52	Bowers, G.L., "Pore Pressure Estimation from Velocity Data: Accounting for Overpressure Mechanisms Besides Undercompaction," IADC/SPE Drilling Conference, Dallas, Texas SPE 27488, pp. 515-530, 1994.
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W	54	Cadore, T., Mavko, G., and Zinsner, B., "Fluid Distribution Effect on Sonic Attenuation in Partially Saturated Limestones," Geophysics, Vol. 63, No. 1, pp. 154-160, January-February 1998.
W	55	Christensen, N.I., and Wang, H.F., "The Influence of Pore Pressure and Confining Pressure on Dynamic Elastic Properties of Berea Sandstone," Geophysics, Vol. 50, No. 2, pp. 207-213, February 1985.
W	56	Dickinson, G., "Geological Aspects of Abnormal Reservoir Pressures in Gulf Coast Louisiana," Bulletin of the American Association of Petroleum Geologists, Vol. 37, No. 2, pp. 410-432, February 1953.
W	57	Duffaut, K. et al., "Shear-wave Elastic Impedance", The Leading Edge, pp. 1222, 1224, 1226 and 1228-1229, November 2000.
W	58	Dunn, K.J., "Acoustic Attenuation in Fluid-Saturated Porous Cylinders at Low Frequencies," J. Acoust. Soc. Am., Vol. 79, No. 6, pp. 1709-1721, June 1986.

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u	60	Dutta, N.C., "Pressure Prediction from Seismic Data: Implications for Seal Distribution and Hydrocarbon Exploration and Exploitation in the Deepwater Gulf of Mexico", Norwegian Petroleum Society (NPF) Special Publication 7, pp. 187-199, 1997
u	61	Dvorkin, J. Nolen-Hoeksema, R., and Nur, A., "The Squirt-Flow Mechanism: Macroscopic Description," Geophysics, Vol. 59, No. 3, pp. 428-438, March 1994.
u	62	Dvorkin, J., and Nur, A., "Dynamic Poroelasticity: A Unified Model with the Squirt and the Biot Mechanisms," Geophysics, Vol. 58, No. 4, pp. 524-533, April 1993.
u	63	Dvorkin, J., Mavko, G., and Nur, A., "Squirt Flow in Fully Saturated Rocks," Geophysics, Vol. 60, No. 1, pp. 97-107, January-February 1995.
u	64	Esmersoy, C. et al., "Acoustic Imaging of Reservoir Structure from a Horizontal Well," The Leading Edge, pp. 940-946, July 1998.
u	65	Abstract of Garotta, R. et al., "Defining Seismic Velocities and Density from P and S (or PS) Seismic Data", SEG/EAGE Summer Research Workshop, pp. 1884-1888, October 1-6, 2000 (Abstract).
u	66	Gas Research Institute, "Look-Ahead Prediction of Pore Pressure While Drilling: Assessment of Existing and Promising Technologies", February 1999.
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u	68	Green, D.H., and Wang, H.F., "Fluid Pressure Response to Undrained Compression in Saturated Sedimentary Rock," Geophysics, Vol. 51, No. 4, pp. 948-956, April 1986.
u	69	Han, D., Nur, A., and Morgan, D., "Effects of Porosity and Clay Content on Wave Velocities in Sandstones," Geophysics, Vol. 51, No. 11, pp. 2093-2107, November 1986.
u	70	Heisig, G., Sanco, J., and Macpherson, J.D., "Downhole Diagnosis of Drilling Dynamics Data Provides New Level Drilling Process Control to Driller," SPE 49206, pp. 649-658, September 27-30, 1998.
u	71	Jackson, M., and Einchcomb, C., "Seismic While Drilling: Operational Experiences in Vietnam," World Oil, pp. 50, 53, March 1997.
u	72	Jogi, P.N. et al., "Field Verification of Model Derived Natural Frequencies of a drill Sting", ETCE99-6648, pp. 1-8, 1999.

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W	73	Jones, T.D., "Pore Fluids and Frequency-Dependent Wave Propagation in Rocks," Geophysics, Vol. 51, No. 10, pp. 1939-1953, October 1986.
W	74	Jones, T.D., and Nur, A., "Velocity and Attenuation in Sandstone at Elevated Temperatures and Pressures," Geophysical Research Letters, Vol. 10, No. 2, pp. 140-143, February 1983.
W	75	Kamata, M. et al, "Drill-Bit Seismic a Service for Drilling Optimization," SPWLA, 38th Annual Logging Symposium, pp. 1-9, June 15-18, 1997.
W	76	Kamata, M., Underbill, W., Meehan, R., and Nutt, L., "Real-Time Seismic-While-Drilling Offer Savings, Improves Safety," Hart's Petroleum Engineer International, Vol. 70, No. 10, pp. 37-39, October 1997.
W	77	Kan, T.K., and Sicking, C.J., "Pre-Drill Geophysical Methods for Geopressure Detection and Evaluation", Development in Petroleum Science, 38, pp. 155-186, 1994.
W	78	Kozawa, T. et al., "Active SWD Using Monochromatic Wavelet", The Third Well Logging Symposium of Japan, pp. 1-6, September 24-25 1997.
W	79	Lee, S., Shaw, J., Ho, R., Burger, J., Singh, S., and Troyer, B., "Illuminating the Shadows: Tomography, Attenuation, and Pore-Pressure Processing in the South Caspian Sea", The Leading Edge, pp. 777-782, June 1998.
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W	85	Mavko, G.M. et al., "Wave Attenuation in Partially Saturated Rocks", 46 <sup>th</sup> Annual International SEG Meeting, Houston, Texas, pp. 161-178, October 27, 1976.
W	86	McMillin, K., "Deepwater Generates Interesting Seismic-While-Drilling Technology," Offshore, pp. 44, 104, March 1999.

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WJ	90	Menke, W., and Dubendorff, B., "Discriminating Intrinsic and Apparent Attenuation in Layered Rock," Geophysical Research Letters, Vol. 12, No. 10, pp. 721-724, October 1985.
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WJ	92	Murphy, W.F. III, "Effects of Partial Water Saturation on Attenuation in Massilon Sandstone and Vycor Porous Glass," J. Acoust. Soc. Am., Vol. 71, No. 6, pp. 1458-1468, June 1982.
WJ	93	Nutt, L., "Drill Bit Seismic Improves Drilling Data," The American Oil & Gas Reporter, pp. 57-62, November 1997.
WJ	94	O'Connell, R. J., and Budiansky, B., "Viscoelastic Properties of Fluid-Saturated Cracked Solids," Journal of Geophysical Research, Vol. 82, No. 36, pp. 5719-5735, December 10, 1977.
WJ	95	O'Hara, S.G., "Elastic-Wave Attenuation in Fluid-Saturated Berea Sandstone," Geophysics, Vol. 54, No. 6, pp. 785-788, June 1989.
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WJ	98	Parra, J.O., "The Transversely Isotropic Poroelastic Wave Equation Including the Biot and the Squirt Mechanisms: Theory and Application," Geophysics, Vol. 62, No. 1, pp. 309-318, January-February 1997.
WJ	99	Payne, M.A., "Looking Ahead with Vertical Seismic Profiles," Geophysics, Vol. 59, No. 8, pp. 1182-1191, August 1994.
WJ	100	Pennebaker, E.S. Jr., "Seismic Data Indicate Depth, Magnitude of Abnormal Pressures", World Oil, pp. 73-77, June 1968.

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W	101	Poletto, F. et al, "Seismic While Drilling Using PDC Signals - SEISBIT Experience and Perspectives," EAGE 59th Conference and Technical Exhibition, Geneva, Switzerland, May 26-30, 1997.
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uu	115	Tittman, B.R. et al. "Dissipation of Elastic Waves in Fluid Saturated Rocks," Physics and Chemistry of Porous Media, American Institute of Physics, pp. 131-143, 1984.
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uu	117	Todd, T., and Simmons, G., "Effect of Pore Pressure on the Velocity of Compressional Waves in Low-Porosity Rocks," Journal of Geophysical Research, Vol. 77, No. 20, pp. 3731-3743, July 10, 1972.
uu	118	Tutuncu, A.N., Podio, A.L., Gregory, A.R., and Sharma, M.M., "Nonlinear Viscoelastic Behavior of Sedimentary Rocks, Part I: Effect of Frequency and Strain Amplitude," Geophysics, Vol. 63, No. 1, pp. 184-194, January-February 1998.
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uu	122	Williams, D.M. et al, "The Long Spaced Acoustic Logging Tool," SPWLA 25 <sup>th</sup> Annual Logging Symposium, June 10-13, 1984.
uu	123	Winkler, K.W., "Dispersion Analysis of Velocity and Attenuation in Berea Sandstones," Journal of Geophysical Research, Vol. 90, No. B8, pp. 6793-6800, July 10, 1985.
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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicants.